MATERIAL SAFETY DATA SHEET

Company RELIANCE STEEL & ALUMN 2550 EAST 25TH STREET LOS ANGELES, CALIFORNIA		tssue Date NOVEMBER 25, 1985 REVISED MARCH 1, 1988	Identification Number CARBON STEEL i.e. A38 . 1018, 1010, 1040 PRESSURE VESSLE QUALITY LEADED CARBON i.e. 10L42
Tade Name (Common Name or Synonym)	CARBON STEEL HR & CR LEADED CARBON	Emergency Phone Number 213-582- OR YOUR	2272 LOCAL RELIANCE DISTRIBUTOR
Chemical Name		Formula	DOT Identification Number NA

I. INGREDIENTS

BASE METAL, ALLOYING ELEMENTS AND METALLIC COATINGS	CAS #	& COMPOSITION BY WEIG		OSHA PEL	ACGIH TLV (mg/m²) (2
Base Metal	CAS #		OSHA PEL		
Iron	7439-89-6	97-99	10	5 (As Iro	on Oxide)
Alloying Elements Hanganese (Mn)	7439-96-5			•	·
Carbon (C)	7440-44-0	<2 <2	5_		t-Ceiling)
, -,		```	N.E.	N.E.	
Aluminum (Al)	7429-90-5	<1	N.E.	In (Yello	1
Phosphorus (P)	7723-14-0	∢i	"i"	.1	w)
Sulfur (S)	7704-34-9	∢i		5 (As SO ₂	1
Silicon (Si)	7740-21-3	<1	13 15	in (Total	
Vanadium (V)	7440-62-2	<1	.5		espirable Dust)
Colombian (Cb) Bismuth (Bi)	7440-03-1 7440-69-9	<1	N.E.	N.E.	
Lead Carbon i.e. 10142	74411-154-4	<1	N.E.	N.E.	
Lead (Pb)	7439-92-1	<1	.05	.15 (Nust	-Fume)
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II. PHYSICAL DATA

٢	Material is (At Normal Condition	ns)			Appearance and		
L	[] Liquid ■ Solid 🗍 Gas	☐ Other			GREY/	BLACK, ODORLESS	
	Acidity/Alkalinity						Vapor Pressure
	oH - NA	Melting Point Boiling Point	> 2500	F	Specific Gravity (H ₂ O = 1)	APPROXIMATELY 7	(mm Hg-at 20 C)
L			NA '	•	Solubility in water (% by weight)	NA .	NA NA

III. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection NIOSH/MSHA APPROVED DUST & FUME RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE EXCEEDS TLV'S	Hands, Arms and Body. PROTECTIVE GLOVES ARE RECOMMENDED DURING HANDLING OF FINES EXPOSURE
Eyes and face SAFETY GLASSES OR GOGGLES SHOULD BE UTILIZED AS REQUIRED BY EXPOSURE	Other Clothing and Equipment OTHER PROTECTIVE EQUIPMENT SHOULD BE UTILIZED AS REQUIRED BY THE WELDING STANDARD

IV. EMERGENCY MEDICAL PROCEDURES

IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR, SEEK MEDICAL AID IMMEDIATELY.

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES.



V. HEALTH/SAFETY INFORMATION

Short term exposure to fumes/dust may produce irritation of eyes and respiratory system. Short term exposure to fumes/dust may produce irritation of eyes and respiratory system. Inhalation of high concentrations of freshly formed oxide fumes of iron, manganess, and lead may cause metal fume fever, characterized by a metallic taste in the mouth, dryness and irritation of the throat and influenza-like symptoms. Chronic Inhalation of high concentrations of iron oxide fumes or dust may lead to benign pneumoconiosis (siderosis). Inhalation of high concentrations of ferric oxide may possibly enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens. Inhalation or ingestion of lead particles may result in lead-induced systemic toxide. Symptoms of lead poisoning include abdominal cramps, anemia, muscle weakness and headache. Prolonged exposure can cause behavioral changes, kidney damage, CKS damage and reproductive effects. SUSPECTED CANCER AGENT? NO THIS PRODUCTS INDERDIBITE ARE NOT FOLIND IN THE LISTS BELOW YES PEDBRAL OSHA "NTP MAC First and Explosion hizavids SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Unnatable incompatibility (Materials to Avoid) REACTS WITH STRONG AGDS TO PRODUCE HYDROGEN GAS SINDIFF (Procedure) NA **NA FOLIOPET (NA FERRIC COMPATIBILITY OF THE AREA HOPEDEAL REGULATIONS VI. ENVIRONMENTAL SPH Of Leak Procedures Regulations of Walling (Na Machael Materials Regulations) Regulations (Na Machael Machae						AND/OR DUSTS WHICH MAY PRESENT HEALTH HAZARDS IF TLV'S ARE EXCEEDED
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